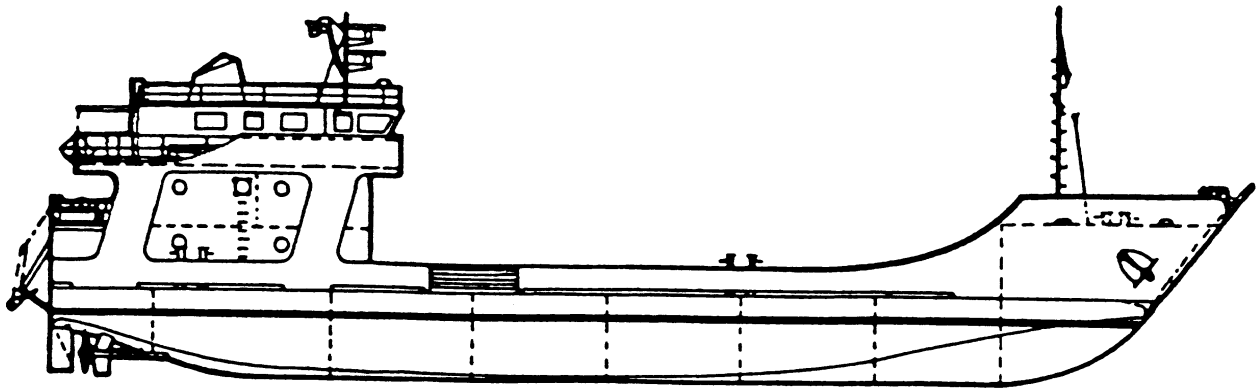
LCU



SYSTEM IDENTIFIERS	
NOMENCLATURE:	Landing Craft Utility (LCU), 1600 Class
SSN:	-----
LIN:	L36876
NSN:	1905-00-168-5764
AMIM NO:	S291
EIC:	WAA
FUEL TYPE:	DIESEL

SYSTEM DESCRIPTION

The 1600 Class Landing Craft Utility (LCU) is capable of carrying 170 tons of cargo or 350 troops in military landing operations. The LCU is powered by four Detroit diesel engines, Model 6-71, turning two screws and generating 696 sustained horsepower. The LCU has a top speed of 11 knots (kts) and is capable of traveling 1200 nautical miles at 8 knots.

There are no separately authorized components identified with this weapon/materiel system.

LCU

LIN	NSN	NOMENCLATURE

SYSTEM VARIANTS

MDS	LIN	NSN
LCU	L36876	1905-00-217-2293
LCU	L36876	1905-01-009-1056
LCU	L36876	1905-01-031-6077

This summary provides an overview of FY 94 Total Army operating and support costs and other information for the weapon system. Average cost per system is displayed so the data can be used in performing analyses and cost studies. Average costs are calculated using the end item's density. NET REPARABLES represent the cost with the Major Subordinate Command (MSC) specific credit rates applied (detailed in Section 1 - Overview).

LCU
FY 94 TOTAL ARMY COST SUMMARY
(FY 94 Constant Dollars)

DENSITY

NUMBER OF SYSTEMS	11

DEPOT END ITEM MAINTENANCE (5.061)

TOTAL	$0
QUANTITY COMPLETED	0
AVG COST/END ITEM	$0.00

CLASS III-POL (5.05)

NOT AVAILABLE

DEPOT SECONDARY ITEM MAINTENANCE

TOTAL	$0
QUANTITY COMPLETED	0
AVG COST/SECONDARY ITEM	$0.00

CLASS V-AMMUNITION (2.11)

NOT APPLICABLE

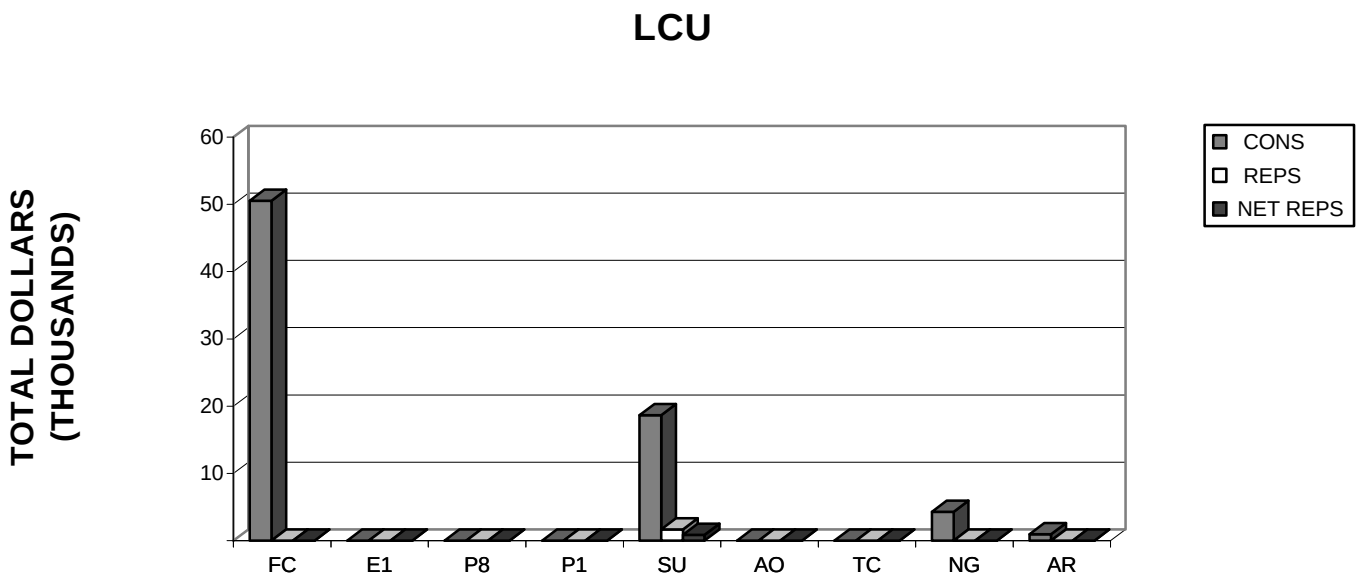
INTERMEDIATE MAINTENANCE

	DS/GS	CIVILIAN
MIL/CIV LABOR COST	$12,242	$0
AVG COST/SYSTEM	$1,112.87	$0.00
MAINTENANCE MANHOURS	737	0
MMHs/SYSTEM	67.00	0.00

CLASS IX MATERIEL-PARTS (5.04/5.03)

	FY 94 DOLLARS	AVG COST PER SYSTEM
CONSUMABLES	$74,419	$6,765.36
NET REPARABLES	$861	$78.27
NET TOTAL COSTS	$75,280	$6,843.64

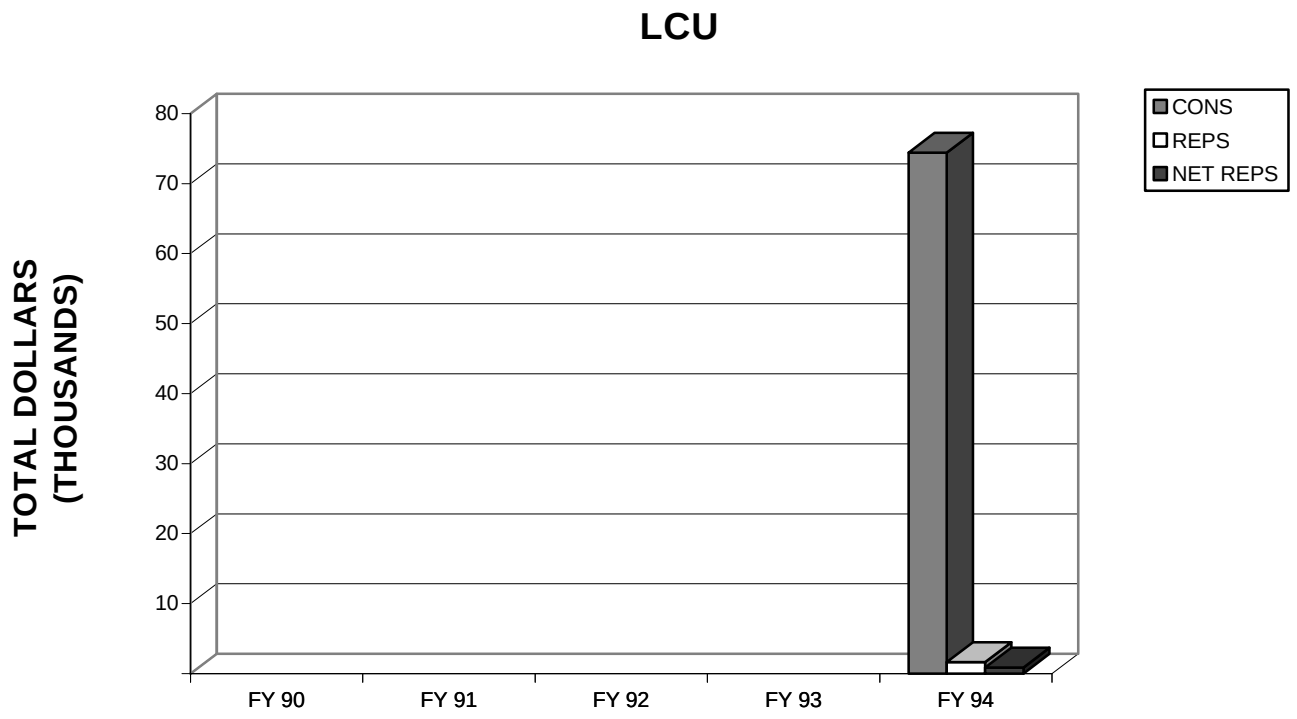
The following graph and table display FY 94 Class IX costs for consumables (CONS), reparables, (REPS), and net reparables (NET REPS) by MACOM. CONS and REPS are the total costs of requisitions recorded in the Logistic Intelligence File (LIF). NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. TOTAL ARMY (TA) costs are the summation of costs across all MACOMs in the table. NET TOTAL COSTS are the sums of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System - Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the number of systems for each MACOM.



LCU
FY 94 MACOM CLASS IX COSTS

MACOM CODE	MACOM NAME	CONS	REPS	NET REPS	NET TOTAL COSTS	NUMBER OF SYSTEMS	AVG PER SYSTEM
FC	FORSCOM	50,522	0	0	50,522	2	25,261
E1	USAREUR	0	0	0	0	0	0
P8	EUSA	0	0	0	0	0	0
P1	USARPAC	0	0	0	0	0	0
SU	USARSO	18,639	1,662	861	19,500	3	6,500
AO	USASOC	0	0	0	0	0	0
TC	TRADOC	0	0	0	0	0	0
NG	ARNG	4,292	0	0	4,292	1	4,292
AR	USAR	966	0	0	966	5	193
TA	TOTAL ARMY	74,419	1,662	861	75,280	11	6,844

The following graph and table display FY 90-94 Class IX costs for consumables (CONS), reparables (REPS) and net reparables (NET REPS) by Total Army. The Total Army costs are a summation of all the MACOMs displayed on the previous page. CONS and REPS are the total cost of requisitions recorded in the Logistic intelligence File (LIF). NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. NET TOTAL COSTS are the sums of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System - Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the number of systems in the Total Army for the fiscal year. Blank rows indicate system was not tracked in the OSMIS database during that



LCU
FIVE YEAR TOTAL ARMY CLASS IX COSTS

FISCAL YEAR	CONS	REPS	NET REPS	NET TOTAL COSTS	NUMBER OF SYSTEMS	AVG PER SYSTEM
FY 90						
FY 91						
FY 92						
FY 93						
FY 94	74,419	1,662	861	75,280	11	6,844

The Total Army Class IX costs from the previous pages are broken out by Work Breakdown Structure (WBS) in the following table. The FY 94 WBS Class IX costs for consumables (CONS) and reparables (REPS) are the total cost of requisitions recorded in the Logistic Intelligence File (LIF). The NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. The TOTAL costs are a summation of all the WBS elements displayed in the table. NET TOTAL COSTS are the sum of the costs in CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System-Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS column by the total number of systems in the Army.

LCU
FY 94 TOTAL ARMY WORK BREAKDOWN STRUCTURE COSTS

WBS	NAME	CONS	REPS	NET REPS	NET TOTAL COSTS	NUM OF SYSTEMS	AVG PER SYSTEM
01	HULL/FRAME	13,283	0	0	13,283	11	1,208
02	SUSPENSION/STEER	0	0	0	0	0	0
03	POWER PACKAGE	34,118	0	0	34,118	11	3,102
04	AUX AUTOMOTIVE	20,109	0	0	20,109	11	1,828
05	TURRET ASSEMBLY	0	0	0	0	0	0
06	FIRE CONTROL	0	0	0	0	0	0
07	ARMAMENT	0	0	0	0	0	0
08	BODY/CAB	0	0	0	0	0	0
09	AUTO LOADING	0	0	0	0	0	0
10	AUTO/REMOTE PILOT	0	0	0	0	0	0
11	NBC EQUIPMENT	0	0	0	0	0	0
12	SPECIAL EQUIPMENT	0	0	0	0	0	0
13	NAVIGATION	0	1,662	861	861	11	78
14	COMMUNICATIONS	110	0	0	110	11	10
15	VEH APP SOFTWARE	0	0	0	0	0	0
16	VEH SYS SOFTWARE	0	0	0	0	0	0
17	INT, ASSY, TEST, C/O	0	0	0	0	0	0
18	OTHER	6,799	0	0	6,799	11	618
	TOTAL	74,419	1,662	861	75,280	11	6,844

The following table displays FY 90-94 Class IX costs by Work Breakdown Structure (WBS) for the Total Army. NET TOTAL COSTS are summation for all the WBS elements displayed on the previous page and are a sum of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System-Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the total number of systems in the Army for the fiscal year. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

LCU
FIVE YEAR TOTAL ARMY WORK BREAKDOWN STRUCTURE COSTS

WBS	NAME	FY 90 NET TOTAL COSTS	FY 91 NET TOTAL COSTS	FY 92 NET TOTAL COSTS	FY 93 NET TOTAL COSTS	FY 94 NET TOTAL COSTS
01	HULL/FRAME					13,283
02	SUSPENSION/STEER					0
03	POWER PACK					34,118
04	AUX AUTOMOTIVE					20,109
05	TURRET ASSEMBLY					0
06	FIRE CONTROL					0
07	ARMAMENT					0
08	BODY/CAB					0
09	AUTO LOADING					0
10	AUTO/REMOTE PILOT					0
11	NBC EQUIPMENT					0
12	SPECIAL EQUIPMENT					0
13	NAVIGATION					861
14	COMMUNICATIONS					110
15	VEH APP SOFTWARE					0
16	VEH SYS SOFTWARE					0
17	INT, ASSY, TEST, C/O					0
18	OTHER					6,799
	TOTAL					75,280
	NUM OF SYSTEMS					11
	AVG PER SYSTEM					6,844

LCU
TOP 40 COST DRIVERS
CLASS IX CONSUMABLES (NON-DLRs)

	NSN	NOMENCLATURE	WBS	MRC	ARI	MATCAT	FY 94 AMDF UNIT PRICE	FY 94 QTY
1.	2990010778304	GOVERNOR ASSEMBLY	03A	Z		J2200	1,581.60	7.00
2.	4210010407619	CYLINDER AND VALVE,	04B	Z		J2200	2,574.05	4.00
3.	2910001198494	SPRAY TIP,NOZZLE,FU	03A	Z		J2200	14.25	211.74
4.	4720010712848	HOSE ASSEMBLY,METAL	01A	Z		J2200	502.14	5.00
5.	6140000572553	BATTERY STORAGE	18	F		K21PU	47.22	39.24
6.	2815013188523	CYLINDER SLEEVE AND	03A	Z		J2200	171.34	9.45
7.	3020003464551	GEAR CLUSTER	03H	Z		J2200	2,655.74	0.59
8.	5930002598881	SWITCH,ROTARY	04A	Z		Q2200	254.35	6.00
9.	2990001311858	GOVERNOR,DIESEL ENG	03A	F		J2100	628.62	2.00
10.	5330006182020	GASKET AND PREFORME	01A	Z		T2200	234.95	4.67
11.	2815010777863	CRANKSHAFT,ENGINE	03A	Z		J2200	948.96	1.14
12.	5950004583778	TRANSFORMER,POWER	04A	Z		Q2200	153.11	7.00
13.	6110009884592	INDICATOR,SYNCHRONI	04A	Z		J2200	1,068.53	1.00
14.	4320003508725	PUMP,ROTARY	18	Z		J2200	328.74	3.19
15.	2910000892370	INJECTOR ASSEMBLY,F	03A	Z		J2200	39.54	26.14
16.	2910009110078	PLUNGER,BUSHING ASS	03A	Z		J2200	19.69	52.00
17.	3020009385662	GEAR,REDUCTION	03H	Z		J2200	333.90	2.50
18.	4210007760657	HOSE ASSEMBLY,NONME	04B	Z		J2200	135.03	6.00
19.	4820005402381	VALVE,FOOT	01A	Z		J2400	267.55	3.00
20.	4320011275072	IMPELLER,PUMP,CENTR	18	Z		J2200	782.89	1.00
21.	5330006502587	PACKING,PREFORMED	01A	Z		T2200	195.52	4.00
22.	2815010775738	PARTS KIT,PISTON AS	03A	Z		J2200	109.75	7.00
23.	4820011598295	VALVE,DIRECTIONAL	01A	H		J2100	249.89	3.00
24.	2815013188531	CYLINDER SLEEVE AND	03A	Z		J2200	134.52	5.17
25.	2910005725796	TANK ASSY,GASOLINE	03A	F		J2100	210.88	3.00
26.	5340002777559	ANODEXCORROSION PRE	01A	Z		T2200	26.19	24.00
27.	2815004763872	CAMSHAFT ASSY ENGIN	03A	Z		J2200	348.10	1.75
28.	2910006607132	PARTS KIT,FUEL INJE	03A	Z		J2200	16.76	34.90
29.	2910000896012	FILTER ELEMENT,FLUI	03A	Z		J2200	8.20	70.00
30.	3110007670527	BEARING,BALL,DUPLEX	01H	Z		T2200	182.36	3.00
31.	2910009110139	NOZZLE,FUEL INJECTI	03A	Z		J2200	44.30	11.94
32.	4310010408904	PARTS KIT,COMPRESSO	18	Z		J2200	246.78	2.00
33.	3110001556403	BEARINGXBALLXANNULA	01H	Z		T2200	42.90	11.00
34.	3020009327339	GEAR	03H	Z		J2200	311.64	1.50
35.	4810010706823	VALVE,LINEAR,DIRECT	01A	Z		J2200	220.42	2.00
36.	5925004225151	CIRCUIT BREAKER	04A	Z		Q2200	210.68	2.00
37.	2815008378340	CAMSHAFT,ENGINE	03A	Z		J2200	390.19	1.00
38.	2910000757475	SPRAY TIP,NOZZLE,FU	03A	Z		J2200	22.16	17.29
39.	5315010406554	PIN SHEAVE	01A	Z		T2200	380.69	1.00
40.	5365004993592	SPACER,SLEEVE	01A	Z		T2200	124.27	2.89

NUMBER OF SYSTEMS	11

NOTE: ROWS MAY NOT CALCULATE DUE TO ROUNDING

LCU
CONSUMABLES (NON-DLRs)

EXTENDED COST (QTY * UNIT PRICE)	AVERAGE COST PER SYSTEM	AVERAGE QUANTITY PER 100 SYSTEMS	FY 90-94 FIVE YEAR AVERAGE QTY	FY 90-94 FIVE YEAR AVERAGE EXTENDED COST
11,071	1,006.45	63.6364		
10,296	936.00	36.3636		
3,018	274.36	1,924.9091		
2,511	228.27	45.4545		
1,853	168.45	356.7273		
1,619	147.18	85.9091		
1,567	142.45	5.3636		
1,526	138.73	54.5455		
1,257	114.27	18.1818		
1,097	99.73	42.4545		
1,082	98.36	10.3636		
1,072	97.45	63.6364		
1,069	97.18	9.0909		
1,049	95.36	29.0000		
1,033	93.91	237.6364		
1,024	93.09	472.7273		
835	75.91	22.7273		
810	73.64	54.5455		
803	73.00	27.2727		
783	71.18	9.0909		
782	71.09	36.3636		
769	69.91	63.6364		
750	68.18	27.2727		
696	63.27	47.0000		
633	57.55	27.2727		
629	57.18	218.1818		
609	55.36	15.9091		
585	53.18	317.2727		
574	52.18	636.3636		
547	49.73	27.2727		
529	48.09	108.5455		
494	44.91	18.1818		
472	42.91	100.0000		
467	42.45	13.6364		
441	40.09	18.1818		
421	38.27	18.1818		
390	35.45	9.0909		
383	34.82	157.1818		
381	34.64	9.0909		
359	32.64	26.2727		
56,286	75.6%	TOP 40		
18,133	24.4%	OTHERS		
74,419				

LCU
COST DRIVERS
CLASS IX REPARABLES (DLRs)

	NSN	NOMENCLATURE	WBS	MRC	ARI	MATCAT	FY 94 AMDF UNIT PRICE W/O CREDIT	FY 94 AMDF UNIT PRICE W/CREDIT	FY 94 QTY
1.	6605001069560	INDICATOR,INDUCTIOI	13	H	C	B21WA	4,373.00	2,265.21	0.38

NUMBER OF SYSTEMS	11

NOTE: ROWS MAY NOT CALCULATE DUE TO ROUNDING

LCU
REPARABLES (DLRs)

EXTENDED COST (W/CREDIT) (QTY * UNIT PRICE)	AVERAGE COST (W/CREDIT) PER SYSTEM	AVERAGE QUANTITY PER 100 SYSTEMS	FY 90-94 FIVE YEAR AVERAGE QTY	FY 90-94 FIVE YEAR AVERAGE EXTENDED COST (W/CREDIT)
861	78.27	3.4545		

861	100.0%	COST DRIVERS
0	0.0%	OTHERS
861		

The following table summarizes FY 94 Depot Maintenance Costs from the Master File Maintenance (MFM). Depot maintenance costs are displayed by cost elements for end item maintenance and secondary item maintenance. The OTHER cost columns represent work categories such as progressive maintenance, renovation, and fabrication/manufacture. For reporting purposes, TRANSPORTATION costs recorded in the World Aircraft Logistics Conference (WALC)/Special Aircraft Assignment Mission (SAAM) records are shown in the OTHER maintenance category.

LCU
FY 94 DEPOT MAINTENANCE COSTS

COST ELEMENTS	END ITEM MAINTENANCE				SECONDARY ITEM MAINTENANCE		
	REPAIR	OVERHAUL	OTHER	MODIFICATION	REPAIR	OVERHAUL	OTHER
CIVILIAN LABOR	0	0	0	0	0	0	0
MILITARY LABOR	0	0	0	0	0	0	0
MATERIEL	0	0	0	0	0	0	0
TRANSPORTATION	0	0	0	0			
OVERHEAD	0	0	0	0	0	0	0
CONTRACT	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0
QTY COMPLETED	0	0	0	0	0	0	0
AVG COST	0	0	0	0	0	0	0

The table below summarizes FY 94 Intermediate Maintenance Costs from the Work Order Logistics File (WOLF) data. The labor hours and labor costs for Direct Support/General Support Intermediate Maintenance (DS/GS) and Civilian Maintenance are displayed by MACOM and Total Army. MACOM DS/GS LABOR COSTS are calculated by multiplying MACOM labor hours by the Army Manpower Cost System (AMCOS) E-5 composite standard rate ($16.61). CIVILIAN LABOR COSTS are a summation from the source data.

LCU
FY 94 INTERMEDIATE MAINTENANCE COSTS

MACOM	DS/GS LABOR HOURS	DS/GS LABOR COSTS	CIVILIAN LABOR HOURS*	CIVILIAN LABOR COSTS*	CIVILIAN LABOR COST/HOUR
FORSCOM	0	0	0	0	0.00
USAREUR	0	0			
EUSA	0	0			
USARPAC	0	0			
USARSO	266	4,418			
USASOC	0	0			
TRADOC	0	0	0	0	0.00
ARNG	471	7,823			
USAR	0	0			
TOTAL ARMY	737	12,242	0	0	0.00

*TRADOC LABOR HOURS and LABOR COSTS include contractor hours and costs.

The following table summarizes FY 90-94 Depot Maintenance Costs. The depot maintenance data are recorded in MFM. FY 94 costs are a summation of the cost elements displayed on the previous page. END ITEM OVERHEAD costs were not separately identified prior to FY 92. TRANSPORTATION costs are recorded in the WALC/SAAM records. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

LCU
FIVE YEAR DEPOT MAINTENANCE COSTS

COST ELEMENTS	END ITEM MAINTENANCE					SECONDARY ITEM MAINTENANCE				
	FY 90	FY 91	FY 92	FY 93	FY 94	FY 90	FY 91	FY 92	FY 93	FY 94
CIVILIAN LABOR					0					0
MILITARY LABOR					0					0
MATERIEL					0					0
TRANSPORTATION					0					
OVERHEAD					0					0
CONTRACT					0					0
OTHER					0					0
TOTAL					0					0
QTY COMPLETED					0					0
AVG COST					0					0

The table below sumarizes FY 90-94 Intermediate Maintenance Costs from WOLF. The fiscal year total costs for Direct/General Support Intermediate Maintenance (DS/GS) and Civilian Maintenance are displayed by MACOM and Total Army. MACOM DS/GS labor costs are calculated by multiplying MACOM labor hours by the Army Manpower Cost System (AMCOS) E-5 composite standard rate. DS/GS COST PER HR is the E-5 composite standard rate in FY 94 constant dollars. CIVILIAN LABOR COSTS are a summation from the source data. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

LCU
FIVE YEAR INTERMEDIATE MAINTENANCE COSTS

MACOM	DIRECT/GENERAL SUPPORT INTERMEDIATE MAINTENANCE (DS/GS)					CIVILIAN MAINTENANCE (CIV)				
	FY 90	FY 91	FY 92	FY 93	FY 94	FY 90	FY 91	FY 92	FY 93	FY 94
FORSCOM					0					0
USAREUR					0					
EUSA					0					
USARPAC					0					
USARSO					4,418					
USASOC					0					
TRADOC					0					0
ARNG					7,823					
USAR					0					
TOTAL ARMY					12,242					0
LABOR HRS					737					0
COST PER HR					16.61					0.00

The following list shows the FY 94 Secondary Item - Rebuilds/Overhauls Cost Drivers recorded in the MFM. AVG COST TO REBUILD/OVERHAUL is calculated by dividing the costs in FY 94 TOTAL COST TO REBUILD/OVERHAUL by FY 94 QTY COMPLETED.

LCU
FY 94 DEPOT SECONDARY ITEM MAINTENANCE - REBUILDS/OVERHAULS COST DRIVERS

NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 94 TOTAL COST TO REBUILD/ OVERHAUL	FY 94 QTY COMPLETED	AVG COST TO REBUILD/ OVERHAUL
NO DATA AVAILABLE					

The following list shows the FY 94 Secondary Item Maintenance - Repairs Cost Drivers recorded in MFM. AVG COST TO REPAIR is calculated by dividing the costs in FY 94 TOTAL COST TO REPAIR by FY 94 QTY COMPLETED.

LCU
FY 94 DEPOT SECONDARY ITEM MAINTENANCE - REPAIRS COST DRIVERS

NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 94 TOTAL COST TO REPAIR	FY 94 QTY COMPLETED	AVG COST TO REPAIR
NO DATA AVAILABLE					

The following list shows the FY 90-94 Secondary Item - Rebuild/Overhauls Cost Drivers recorded in MFM. These five year Cost Drivers were revised from previous years' reports, see Appendix A, Section 13 for further explanation. AVG COST TO REBUILD/OVERHAUL is calculated by dividing the costs in FY 90-94 TOTAL COST TO REBUILD/OVERHAUL by FY 90 -94 QTY COMPLETED.

LCU
FIVE YEAR DEPOT SECONDARY ITEM MAINTENANCE - REBUILDS/OVERHAULS COST DRIVERS

NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 90-94 TOTAL COST TO REBUILD/ OVERHAUL	FY 90-94 QTY COMPLETED	AVG COST TO REBUILD/ OVERHAUL
NO DATA AVAILABLE					

The following list shows the FY 90-94 Secondary Item - Repairs Cost Drivers recorded in MFM. These five year Cost Drivers were revised from previous years' reports, see Appendix A, Section 13 for further explanation. AVG COST TO REPAIR is calculated by dividing the costs in FY 90-94 TOTAL COST TO REPAIR by FY 90-94 QTY COMPLETED.

LCU
FIVE YEAR DEPOT SECONDARY ITEM MAINTENANCE - REPAIRS COST DRIVERS

NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 90-94 TOTAL COST TO REPAIR	FY 90-94 QTY COMPLETED	AVG COST TO REPAIR
NO DATA AVAILABLE					

CHOOSE A VOLUME FOR MORE SYSTEMS

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